

Montana Department of Transportation PO Box 201001 Helena, MT 59620-1001

Memorandum

To: District Construction Engineers

From: Paul G. Jagoda, P.E., Construction Engineering Services Engineer

Tom S. Martin, P.E., Consultant Design Engineer

Date: June 11, 2004

Subject: Procedure for Dealing with Construction Problems related to Design Errors

or Omissions on Consultant Plans

INTRODUCTION

Occasionally, a problem is encountered during the construction of a project as a result of errors and/or omissions from plans developed by Consultants. The costs incurred to remedy the situation can become significant. In the past, the Department has dealt with each instance in varying ways and with various results. This document will establish a statewide procedure to uniformly deal with errors and/or omissions from plans developed by Consultants.

PURPOSE

The intent of this memo is to:

- Provide MDT field construction personnel with a procedure to quickly and efficiently obtain a solution to construction problems encountered as a result of errors and/or omissions from plans developed by Consultants
- Create a method to inform/involve various areas of the Department at logical times during the solution period
- Establish a uniform method to recuperate costs incurred by MDT as a result of errors and/or omissions on plans developed by Consultants

DEFINITIONS

• Errors – incorrect data shown on the plans or supporting documentation

- Omissions something neglected or not included with the plans or supporting documentation
- Corrective Actions to alter or adjust so as to bring to some standard or required condition

PROCEDURE

The Construction Engineering Services Bureau, the Consultant Design Bureau, and the District Construction Engineer should be contacted immediately by the Engineering Project Manager for assistance when these types of situations arise. This is particularly important if resolution is slow in developing and the delay could result in additional costs.

The attached chart will provide the flow path for each step of the procedure. The following will provide additional information and clarification to the flow chart:

- **Box 1** The identification of a significant error and/or omission by any MDT employee will trigger the implementation of this procedure
- Box 2 The Engineering Project Manager will try to notify the Consultant Design Engineer and Bridge Engineer (if the problem is bridge related) of the problem. Notification of the Consultant Design Engineer and Bridge Engineer are not required prior to contacting the Consultant but is preferred in the case of non-time-critical issues. The Consultant Design Engineer will determine which Consultant Project Engineer will be handling the problem and advise the Engineering Project Manager. The Consultant Project Engineer will be the primary point of contact for the Engineering Project Manager. The Consultant Project Engineer will assist with the solution, as necessary, and aid in communication between the Department and the Consultant. The Engineering Project Manager will contact the Consultant directly and discuss possible solutions. The Department is contractually obligated to give the Consultant an opportunity to be involved with the solution process. The Engineering Project Manager will keep the Consultant Project Engineer advised of the solution process.
- Box 3 The Consultant Project Engineer, in consultation with the Consultant Design Engineer and with the aid of various members within the Department, will determine if the Consultant is responsible for the error and/or omission. A determination will be made whether the Consultant can be charged for the costs associated with the solution. The Consultant Project Engineer will notify the Engineering Project Manager of the determination.
- **Box 4** There may be occasions when an error and/or omission exists but the Consultant cannot be charged. If the Consultant cannot be charged for the costs associated with a solution, the Engineering Project Manager will take corrective action to find a solution. The Engineering Project Manager will use available resources (which may include the Department and/or the Consultant) to find an appropriate solution. When requested by the Department, the Consultant will provide assistance to determine a solution.

- Box 5 When it is determined that the Consultant is responsible for the costs associated with a solution, the Engineering Project Manager will begin tracking costs associated with the solution. This includes chargeable MDT time spent researching and implementing the solution and notifying the Contractor to keep a tally of costs directly attributed to the error and/or omission. The Consultant Project Engineer will begin charging time spent researching a solution and negotiating with the Consultant. The Consultant Project Engineer will send a letter to the Consultant advising them of the error and/or omission with carbon copy to MDT Legal Services. The letter is necessary to satisfy the contractual obligations between the Department and the Consultant. In the future, an activity account number will be created and used on time sheets to track design errors.
- **Box 6** The Engineering Project Manager and the Consultant will work together to determine an acceptable solution. The Engineering Project Manager is encouraged to utilize the Consultant Project Engineer, as necessary, during the process. If the Engineering Project Manager encounters difficulty in dealing with the Consultant during any stage of the solution process, they should immediately contact the Consultant Project Engineer.
- Box 7 The Engineering Project Manager will write a change order and implement the solution.
- Box 8 The Engineering Project Manager will summarize and submit in writing the final field costs associated with the development and implementation of the solution to the Consultant Project Engineer.
- Box 9 The Consultant Project Engineer will compile all time and costs associated with the development and implementation of the solution. The Consultant Project Engineer will determine which costs are justified and consult with MDT Legal Services regarding the billing of the Consultant.
- **Box 10 -** The Consultant Project Engineer will send a letter to the Consultant detailing the costs incurred with the solution and requesting payment from the Consultant. The letter will be carbon copied to MDT Legal Services, the District Administrator, the District Construction Engineer, and the Engineering Project Manager. The letter is necessary to satisfy the contractual obligations between the Department and the Consultant.
- Box 11 The Engineering Project Manager will complete a Consultant Rating

	Form to identify the strengths and weaknesses of the Consultant during the solution
	process.
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Attachment

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